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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/556,285	04/24/2000	Geoff W. Taylor		7980

7590 11/01/2002  
DAVID P. GORDON  
65 WOODS END ROAD  
STAMFORD, CT 06905

EXAMINER

MUNSON, GENE M

ART UNIT	PAPER NUMBER
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2811

DATE MAILED: 11/01/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

556,285

Applicant(s)

G. TAYLOR

Examiner

G. MUNSON

Group Art Unit

2811

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE THREE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- ☒ Responsive to communication(s) filed on 7 October 2002
- ☐ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- ☒ Claim(s) 9-21, 23-36 is/are pending in the application.
- Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- ☒ Claim(s) 9-21, 23-36 is/are rejected.
- ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- ☐ Claim(s) \_\_\_\_\_ are subject to restriction or election requirement

## Application Papers

- ☒ The proposed drawing correction, filed on 7 October 2002 is ☒ approved ☐ disapproved. Fig. 1, 2
- ☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner
- ☒ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)-(d).
- ☐ All ☐ Some\* ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
- ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
- ☐ Copies of the certified copies of the priority documents have been received
- in this national stage application from the International Bureau (PCT Rule 17.2(a))

\*Certified copies not received: \_\_\_\_\_

## Attachment(s)

- ☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 11
- ☒ Notice of Reference(s) Cited, PTO-892
- ☐ Notice of Draftperson's Patent Drawing Review, PTO-948
- ☐ Interview Summary, PTO-413
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Other \_\_\_\_\_

Office Action Summary

Art Unit: 2811

Prosecution is continued under 37 CFR 1.53(d).

On page 16, line 13, of the amended specification, filed 7 October 2002, "biased" is misprinted.

The specification is objected to under 37 CFR 1.71. On page 12, lines 21-22, of the amended specification, the equation has been omitted. See page 13, line 12, of the original specification.

In claim 25, line 5, "said" is misprinted.

Claims 9-21 and 23-36 are rejected under 35 U.S.C. 112, first paragraph, as not being based on an adequate specification. How the layers of Figures 1 and 2 fit into the device of Figure 4 is not clearly described to enable any person skilled in the art to make and use the invention. Via which layer of Figure 1 signal charge reaches the output in Figure 4 is not clearly explained.

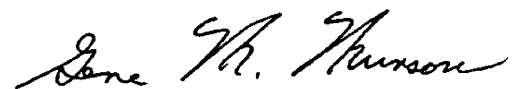
Claims 26-36 are rejected under 35 U.S.C. 112, second paragraph. In claim 26, the scope of the "modulation doped quantum well structure" is unclear, absent claiming the necessary structure which it comprises. Compare claim 9. Claim 29 is identical to claim 28 and should be canceled.

Mimura (Figure 13) is cited of interest in showing use of a heterojunction charge transfer device.

No claim is allowed.

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10/29/02



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ELECTRONIC ART UNIT 2811